

AMENDMENTS TO THE CLAIMS

1. – 53. (Cancelled)

54. (Previously presented) A composition having no substantial acute toxicity comprising:
- (a) 1,1,1,2-tetrafluoropropene (HFO-1234yf); and
 - (b) at least one adjuvant selected from the group consisting of lubricants, compatibilizers, surfactants, solubilizing agents, dispersing agents, cell stabilizers, cosmetics, polishing agents, medicaments, cleaners, fire retarding agents, colorants, chemical sterilants, stabilizers, polyols, polyol premix components and combinations of two or more of these.
55. (Original) The composition of claim 54 having a Global Warming Potential (GWP) of not greater than about 150.
56. - 59. (Cancelled)
60. (Original) A heat transfer composition comprising the composition of claim 54 wherein said adjuvant includes at least one lubricant.
61. (Original) A heat transfer composition comprising the composition of claim 54 wherein said adjuvant includes at least one compatibilizer.
62. (Previously presented) The heat transfer composition of claim 61 wherein said HFO-1234yf is present in an amount of at least about 50% by weight and said lubricant is present in an amount of at least about 30% by weight.
63. (Currently Amended) A blowing agent comprising the composition of claim 54 wherein said adjuvant includes ~~polyol, polyol~~ polyol premix components and combinations of these.

64. (Previously presented) A blowing agent comprising the composition of claim 54 wherein said HFO-1234yf is present in an amount of from about 5% by weight.
65. (Original) A sterilant composition comprising the composition of claim 54 wherein said adjuvant includes at least one chemical sterilant.
66. – 68. (Cancelled)
69. (Previously Presented) The composition of claim 54 wherein said composition is non-flammable.
70. – 75 (Cancelled)
76. (Previously Presented) The composition of claim 54 having a Global Warming Potential (GWP) of not greater than about 100.
77. (Previously Presented) The composition of claim 54 having a Global Warming Potential (GWP) of not greater than about 75.
78. (Cancelled)
79. (Previously Presented) The composition of claim 54 having an ODP of not greater than about 0.02.
80. (Cancelled)
81. (Previously presented) The composition of claim 54 wherein said composition is a refrigerant compositions and said HFO-1234yf comprises at least about 70 % by weight of the composition.
82. (Previously Presented) The composition of claim 61 wherein said compatibilizer is selected from the group consisting of propane, butane, pentane, and combinations of these.

83. – 84. (Cancelled)

85. (Previously Presented) The composition of claim 61 comprising compatibilizer in amounts of from about 0.5 to about 5 percent by weight of the composition.

86. (Previously Presented) The composition of claim 65 wherein said sterilant is selected from the group consisting of ethylene oxide (EO), formaldehyde, hydrogen peroxide, chlorine dioxide, ozone, and combinations of these.

87. - 90. Canceled

91. (Previously presented) The composition of claim 54 wherein said HFO-1234yf is present in the composition in an amount of at least about 50% by weight.

92. (Previously presented) The composition of claim 54 wherein said HFO-1234yf is present in the composition in an amount of at least about 70% by weight.

93. (Previously Presented) A refrigerant comprising the composition of claim 54, said refrigerant comprising lubricant in an amount of from about 30 to about 50% by weight.

94. (Previously Presented) The composition of claim 54 comprising a surfactant and a solubilizing agent.

95. (Previously Presented) The composition of claim 54 comprising lubricant wherein said lubricant is selected from the group consisting of polyol esters, poly alkylene glycols and combinations of these.

96 (Previously Presented) The composition of claim 95 wherein said lubricant comprises at least one polyalkylene glycol.

97. (Previously Presented) The composition of claim 95 wherein said lubricant comprises at least one polyol ester.

98. (Previously Presented) The composition of claim 95 wherein said composition has one liquid phase at at least one temperature between about -50°C and $+70^{\circ}\text{C}$.
99. (Previously Presented) The composition of claim 54 comprising lubricant and being stable when in contact with aluminum, steel and copper under the conditions of use in refrigeration and air conditioning systems.
100. (Previously Presented) A composition having no substantial acute toxicity comprising:
(a) 1,1,1,2,3 pentafluoropropene (HFO-1225ye); and
(b) at least one adjuvant selected from the group consisting of lubricants, compatibilizers, surfactants, solubilizing agents, dispersing agents, cell stabilizers, cosmetics, polishing agents, medicaments, cleaners, fire retarding agents, colorants, chemical sterilants, stabilizers, polyols, polyol premix components and combinations of two or more of these.
101. (Previously Presented) The composition of claim 100 having a Global Warming Potential (GWP) of not greater than about 150.
102. (Previously Presented) A heat transfer composition comprising the composition of claim 100 wherein said adjuvant includes at least one lubricant.
103. (Previously Presented) A heat transfer composition comprising the composition of claim 100 wherein said adjuvant includes at least one compatibilizer.
104. (Previously Presented) The heat transfer composition of claim 102 wherein said HFO-1225ye is present in an amount of at least about 50% by weight and said lubricant is present in an amount of at least about 30% by weight.
105. (Currently Amended) A blowing agent comprising the composition of claim 100 wherein said adjuvant includes ~~polyol, polyol~~ polyol premix components and combinations of these.

106. (Previously Presented) A blowing agent comprising the composition of claim 100 wherein said HFO-1225ye is present in an amount of at least about 5% by weight.
107. (Previously Presented) A blowing agent comprising the composition of claim 100 wherein said HFO-1225ye is present in an amount of at least about 15% by weight.
108. (Previously Presented) A sterilant composition comprising the composition of claim 100 wherein said adjuvant includes at least one chemical sterilant.
109. (Previously Presented) The composition of claim 100 wherein said composition is non-flammable.
110. (Previously Presented) The composition of claim 100 having a Global Warming Potential (GWP) of not greater than about 100.
111. (Previously Presented) The composition of claim 100 having a Global Warming Potential (GWP) of not greater than about 75.
112. (Previously Presented) The composition of claim 100 having an ODP of not greater than about 0.02.
113. (Previously Presented) The composition of claim 100 wherein said composition is a refrigerant compositions and said HFO-1225ye comprises at least about 70 % by weight of the composition.
114. (Previously Presented) The composition of claim 100 comprising compatibilizer and wherein said compatibilizer comprises is selected from the groups consisting of propane, butane, pentane, and combinations of these.

115. (Previously Presented) The composition of claim 100 comprising compatibilizer in amounts of from about 0.5 to about 5 percent by weight of the composition.
116. (Previously Presented) The composition of claim 100 comprising sterilant and wherein said sterilant is selected from the group consisting of ethylene oxide (EO), formaldehyde, hydrogen peroxide, chlorine dioxide, ozone, and combinations of these.
117. (Previously Presented) The composition of claim 100 wherein said HFO-1225ye is present in the composition in an amount of at least about 50% by weight.
118. (Previously Presented) The composition of claim 100 wherein said HF)-1225ye is present in the composition in an amount of at least about 70% by weight.
119. (Previously Presented) A refrigerant comprising the composition of claim 100, said refrigerant comprising lubricant in an amount of from about 30 to about 50% by weight.
120. (Previously Presented) The composition of claim 100 comprising a surfactant and a solubilizing agent.
121. (Previously Presented) The composition of claim 100 comprising lubricant wherein said lubricant is selected from the group consisting of polyol esters, polyalkylene glycols and combinations of these.
122. (Currently Amended) The composition of claim ~~124~~ 121 wherein said lubricant comprises at least one polyalkylene glycol.
123. (Currently Amended) The composition of claim ~~124~~ 121 wherein said lubricant comprises at least one polyol ester.

124. (Currently Amended) The composition of claim ~~124~~ 121 wherein said composition has one liquid phase at at least one temperature between about – 50 °C and +70 °C.
125. (Previously Presented) The composition of claim 100 comprising lubricant and being stable when in contact with aluminum, steel and copper under the conditions of use in refrigeration and air conditioning systems.
126. (Previously Presented) The composition of claim 100 wherein said HFO-1225ye comprises cis-HFO-1225ye.
127. (Previously Presented) The composition of claim 100 wherein said HFO-1225ye comprises trans-HFO-1225ye.
128. (Previously Presented) The composition of claim 100 wherein said HFO-1225ye comprises a combination of cis-HFO-1225ye and trans-HFO-1225ye.
129. (Previously Presented) A blowing agent comprising the composition of claim 54 wherein said HFO-1234yf is present in an amount of at least about 15% by weight.